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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,568	01/03/2007	Susan J. Knox	STAN-333	3872
77974 1224/2008 2007 Technology Licensing Bozicevic, Field & Francis LLP			EXAMINER	
			CHOI, FRANK I	
1900 University Avenue Suite 200			ART UNIT	PAPER NUMBER
East Palo Alto, CA 94303			1616	
			MAIL DATE	DELIVERY MODE
			12/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/576,568 KNOX ET AL Office Action Summary Examiner Art Unit FRANK I. CHOI 1616 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) ____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 19 April 2006 is/are; a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date 11/26/2007.

E) Other

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DETAILED ACTION

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-3, 7-10, 9 rejected under 35 U.S.C. 102(e) as being anticipated by Stiefel et al. (US Pat. 6,656,509).

Stiefel et al. expressly disclose a method for producing a synergistic cytotoxic effect on a cancer cell in a patient being treated for cancer by contact the cell with at least one sale of SeO2 Application/Control Number: 10/576,568

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and a cytostatic agent, where the administration can be simultaneous, separate or sequential, where the cancer is prostatic carcinoma (Claim 1, Claim 6).

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stiefel et al. (US Pat. 6,656,509) in view of the acknowledged prior art, Lemelson et al. (US Pat. 4,665,897) and Gorun (US Pat. 6,511,971).

Stiefel et al. expressly disclose a method for producing a synergistic cytotoxic effect on a cancer cell in a patient being treated for cancer by contact the cell with at least one sale of SeO2 and a cytostatic agent, where the administration can be simultaneous, separate or sequential, where the cancer is prostatic carcinoma (Claim 1, Claim 6). It is disclosed that a preferred salt of SeO2 is Na2SeO3 (Column 6, lines 1, 2).

The Applicant acknowledges that prostate cancer cells can be resistant to apoptosis which plays a role in local and distant disease progression following conventional therapy, such as radiotherapy (Specification, paragraph 0003). It is acknowledged that selenite is capable of inhibiting cell growth and inducing apoptosis in a variety of human cancer cell lines in vitro, inhibit tumor growth of breast and ovarian cancer cells in vivo, and that the induction of apoptosis is mediated by a redox mechanism involving induction of oxidative stress via superoxide formation and lowered intracellular GSH levels (Specification, paragraph 0006).

Lemelson et al. disclose the use of antibodies which target tumor tissue and contain nuclide which can be rendered radioactive by a beam of neutron to generate radiation at the cite of cancerous tissue, such as tumors, thereby destroying the cancerous tissues (Column 10, lines 19-68).

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Gorun disclose treatment of tumors with photodynamic sensitizers which produce singlet molecular oxygen and destroys the cancerous tissue (Column 11, lines 14-40).

Stiefel et al. disclose a method for producing a synergistic cytotoxic effect on a cancer cell in a patient being treated for cancer by contact the cell with at least one sale of ScO2 and a cytostatic agent, where the administration can be simultaneous, separate or sequential, where the cancer is prostatic carcinoma and the preferred salt of ScO2 is Na2ScO3. The difference between Stiefel et al. and the claimed invention is that Stiefel et al. does not expressly disclose the use of inorganic selenite, radiation therapy or reactive oxygen species (ROS)-inducing therapy. However, the prior art amply suggests the same as Steifel et disclose that sodium selenite is a preferred source of selenium, the applicant acknowledges that radiotherapy is used to treat prostate cancer, Lemelson discloses use of radiation therapy using neutron beams to active nuclides species at the site of the tumor and Gorun discloses that photodynamic sensitizers which produce singlet molecular oxygen are used to destroy cancerous tissue. As such, one of oridnary skill in the art would have expected that the combination of sodium selenite with other methods of treatment of cancers and tumors would be effective in treating cancers and tumors such as prostate cancer.

Therefore, the claimed invention, as a whole, would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, because every element of the invention has been collectively taught by the combined teachings of the references.

Conclusion

A facsimile center has been established in Technology Center 1600. The hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier number for accessing the facsimile machine is 571-273-8300. Application/Control Number: 10/576,568 Page 5

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Choi whose telephone number is (571)272-0610. Examiner maintains a compressed schedule and may be reached Monday, Tuesday, Wednesday and Thursday, 6:00 am – 4:30 pm (EST).

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Johann R. Richter, can be reached at (571)272-0646. Additionally, Technology Center 1600's Receptionist and Customer Service can be reached at (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (foll-free).

Frank Choi Patent Examiner Technology Center 1600 December 25, 2008

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616